Applying Cooling Technology.

DRINKING WATERCOOLER MANUAL.

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Contents.

ACROKOOL Range of Watercooler Models.

This manual covers the following models in the Acrokool drinking watercooler range:-.

FLOOR STANDING FOUNTAINS
'AcroCool Slimline' – Water Filter Optional
'AcroCool Slimline Plus' – Water Filter Optional
'POU EcoSpa - AcroSpa – AcroSpa Plus ' – Water Filter Optional
'SF65G Industrial/Heavy Duty' – Water Filter optional
'SF100G Industrial/Heavy Duty' – Water Filter optional
'SF200G Industrial/Heavy Duty'– Water Filter optional

WALL MOUNTED FOUNTAINS
'AcroCool Slimline Wall-Mounted' – c/w Water Filter optional

UNDER-COUNTER/HIDE-AWAY COOLERS
*' SR65G Hide Away/Under Counter'**– Water Filter optional
*'SR140G Hide Away/Under Counter'**– Water Filter optional
(* Providing chilled water to remote drinking points).

Component Description.

All models are suitable for connection to the mains water supply and incorporate the following components:-

1. Compressor
Hermetic-type, incorporating electrical overload protection operating on non-ozone depleting R-134a refrigerant.

2. Condenser
Air cooled aluminium fin on copper tube coil block.

3. Heat Exchanger
Manufactured from heavy gauge seamless copper tubing arranged in two parallel circuits (one for water & one for refrigerant) thermally bonded for efficient heat transfer.

4. Condenser Fan Motor
Shaded pole motor driving an aluminium fan blade for condenser cooling.

5. Control
Factory set to automatically control drinking water temperature.

6. Bubbler *
Push button operation on models:
'AcroCool-Slimline','-Slimline Plus', '-Slimline Wall-Mounted'.
'SF65G', 'SF100G', 'SF200G'.

7. Carafe/Cup Filler
Lever operated, with adjustable water flow facility
Or Push Button operation .
'AcroCool-Slimline','-Slimline Plus', '-Slimline Wall-Mounted'.
'SF65G', 'SF100G', 'SF200G'.

8. Water Dispensing Outlet ('EcoSpa, *AcroSpa'* + *AcroSpa Plus* only).
Push button operated solenoid valve with flow regulator.

9. Sink Top
Heavy gauge, one-piece stainless steel pressing.

10. Pre cooler
Incorporating the unique Acrokool pre-cooler
Models *'SF100G' & 'SF200G'* only

11. Cabinet
'AcroCool-Slimline','-Slimline Plus', '-Slimline Wall-Mounted'.
Manufactured from high-grade zinc-coated steel with plastic-laminate external coating. (Stainless Steel optional)

'SF65G', 'SF100G', 'SF200G'.
SR65G', 'SR140G'
Manufactured from high-grade mild steel sheet coated with a uniform electro-deposit of pure zinc before being enamelled. (Stainless Steel optional for *SF*-Range only).

All with removable front panels,for installation and servicing. Ventilation side grilles are provided to ensure un-impeded air movement over the condenser.

12. Upper & Front Panels ('Spa Range *'* only).
Manufactured from high impact ABS.
(** - optional)*

Installation Details

WARNING: Please read all the information in this manual before putting the watercooler into use.

Installation and servicing should be carried out by a competent engineer.

Siting

Important
Please note (for all models)
Do not locate watercoolers near any direct source of heat.

There should be no obstruction within 200mm (8") of either side, and 75mm (3”) of the rear of the watercooler to ensure an adequate supply of ambient air to the condenser through the cabinet ventilation grilles.

Connecting To Services

The mains water supply and (where applicable) basin waste should be installed in accordance with current local regulations. The mains water supply should incorporate a back-flow protection valve and isolating valve, before entering the cooler inlet. All supply pipe work must be flushed through thoroughly until the water flows clear before connecting to cooler.

Check all joints for leaks. Where applicable, the basin waste should have adequate fall to ensure correct drainage.

During normal cooler operation, the heat exchanger coil drain tube should remain capped (as supplied). If moving machine to another location or transporting it for any reason, drain water from the heat exchanger coil by removing drain cap, opening drain valve and operating the bubbler. If the cooler is out of use during the winter months the coil should be drained to avoid frost damage.

See below and pages 9-14 for positions and size of connections.

Water Supply

Mains Water Supply Connection : 3/8” bulk head tube fitting
15mm Compression Joint - *‘SF’*
Minimum Water Pressure : 2 Bar (29psi)
Maximum Water Pressure : 10 Bar (147psi)

Basin Waste

Sink Top Connection : 1.$^{1}/_{4}$“ BSPM connector – *‘Slimline’*
: Ø1.½” Waste Pipe – *‘SF’*
(*‘Slimline’* & *‘SF-‘ m*odels suitable for fitting the waste trap inside the cooler).

Electrical Connection

Warning: - This Appliance Must Be Earthed.

Note – The wires in the mains lead of this appliance are coloured in accordance with the following code:-

Live	**: Brown**
Neutral	**: Blue**
Earth	**: Green & Yellow**

Connecting To Services (cont'd)

Electrical Supply	: 230V-1Ph-50Hz.
Connection	: Switched Fused Spur Junction (13 Amp Fuse)
	Or
	13 Amp UK Plug where supplied as standard.

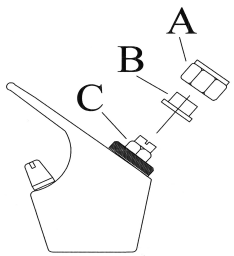
Putting Into Service.

After plumbing and electrical connections have been made, fit the filter as detailed in 'Cartridge Installation/Replacement'. This stage may have already been completed during manufacture. Turn on the mains water supply and purge air from the cooler by draining the heat exchanger coil (see 'Connecting To Services'). Then depress the carafe filler handle or bubbler button to purge any remaining air from the system. Alternatively the '*AcroSpa'* has a depress-able blue service button.

Adjusting The Bubbler Stream Height

The bubbler stream height is factory set. However water pressures may vary in different locations. To adjust the bubbler stream height follow these instructions:-

1) Unscrew the hexagonal nut (A) and remove.
2) Remove the bubbler button cap (B) to expose the adjustment screw (C).
3) Alter the adjustment screw (C) to suit; clockwise to reduce the stream height or counter-clockwise to increase the stream height.
4) Before testing, replace the bubbler button cap (B). Re-adjust if necessary.
5) Replace the bubbler cap (B) and hexagonal nut (A)



Adjusting The Carafe/Cup Filler Flow

CARAFE FILLER ADJUSTMENT
Remove swan neck as shown in FIG 1, by pulling clear of valve body.
Next slide operating lever across valve body to expose a adjustable 'T' bar,
as seen in FIG 2. Screw 'T' bar clockwise to increase flow and anticlockwise to decrease flow.
Slide lever back in to position and refit swan neck.

FIG 1 CUP/CARAFE FILLER

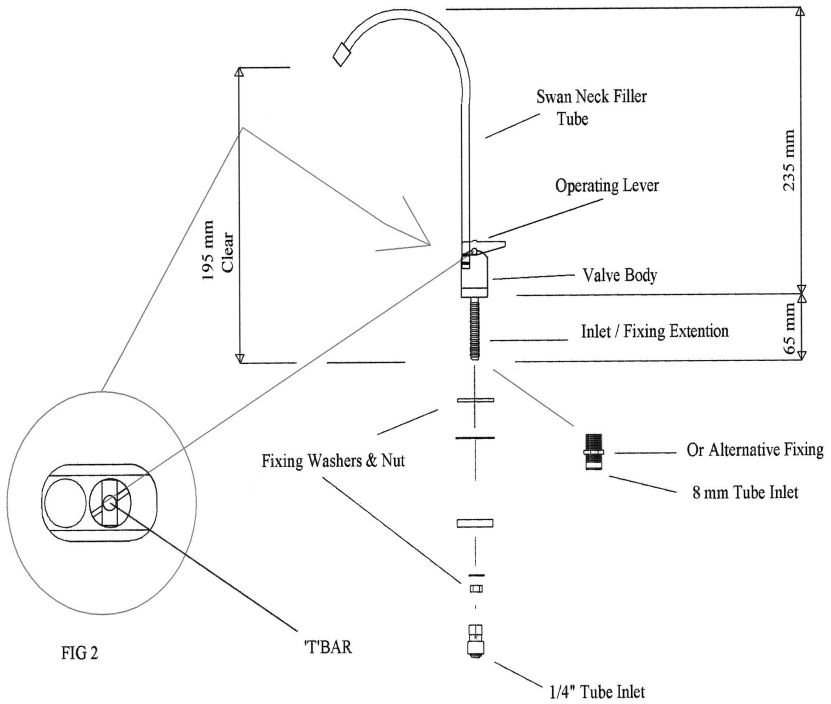


FIG 2

NB: Some models have a threaded spout rather than a push-fit spout.

Water Filter Cartridge

Optional Filter:-

Fitted Internally: 'Slimline', 'Slimline Plus', 'Slimline' (wall mounted version), POU EcoSpa, AcroSpa, AcroSpa Plus. Industrial 'SF65G', 'SF100G', 'SF200G',
Fitted Inline SR65G & -140G Under-Counter/Hide-Away'.

Taste & odour - >99% Chlorine reduction.

Filter Model	: Granular Activated Carbon 10µm
Capacity	: 5700L/6 months.
Flow Rate	: 1.9 L/Min.
Maximum Pressure	: 8.6 Bar (125 Psi).
Temperature Range	: 2 – 38^{0}C.

Note: - For use in cold water applications only.
- Do not use where water is of unknown quality or micro- biologically unsafe.

Cartridge Installation/Replacement

1**. Isolate the electrical supply to the cooler.**
2. To gain access to unit remove, front panel which is held at the base by two Philips screws. (For *'SR- Under-Counter/Hide-Away'*, the filter is mounted externally and in-line with the cooler.)
   Position bucket/utensil in front of cooler.
3. Unscrew the old cartridge from the head (if applicable). Water supply will automatically be isolated.
4. Remove the plastic protection cap (yellow) fitted to the new cartridge and screw the cartridge on until sealed. **Do not over tighten.**
5. Check for leaks. If leaks occur check all previous steps. If leaks persist, do not use, call your distributor.
6. Remove heat exchanger drain cap. Direct drain tube towards bucket and open drain cock. Flush approximately 15 litres of water through system (filter) to clear any loose carbon particles. When the water stream flows clear, turn off drain valve and replace heat exchanger drain cap.
7. Replace panel or lid and turn on electrical supply and operate.
8. Dispose of old cartridge with consideration for the environment.

7. Ultraviolet Water Filter (optional)

Sterilisation of water by making micro-organisms inactive.

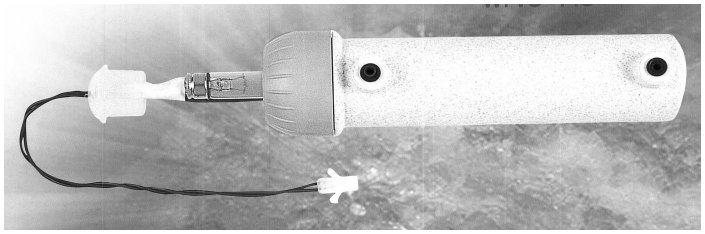
Technical Specification

Voltage	: 110V / 220V - 1 Ph - 50 Hz.
Current	: 0.162 Amps.
UV Lamp	: 6 Watts (G6T5).
UV Output	: 1.0 Watt.
UV Illumination	: 11.0 µW/cm^2.
UV Wavelength	: 2537 A.
Min. Sterilisation Capacity	: 2.0 L/Min.
Water Temperature Range	: 0 - 40 ^{0}C.
Lamp Service Life	: 6 Months.

UV Lamp Replacement

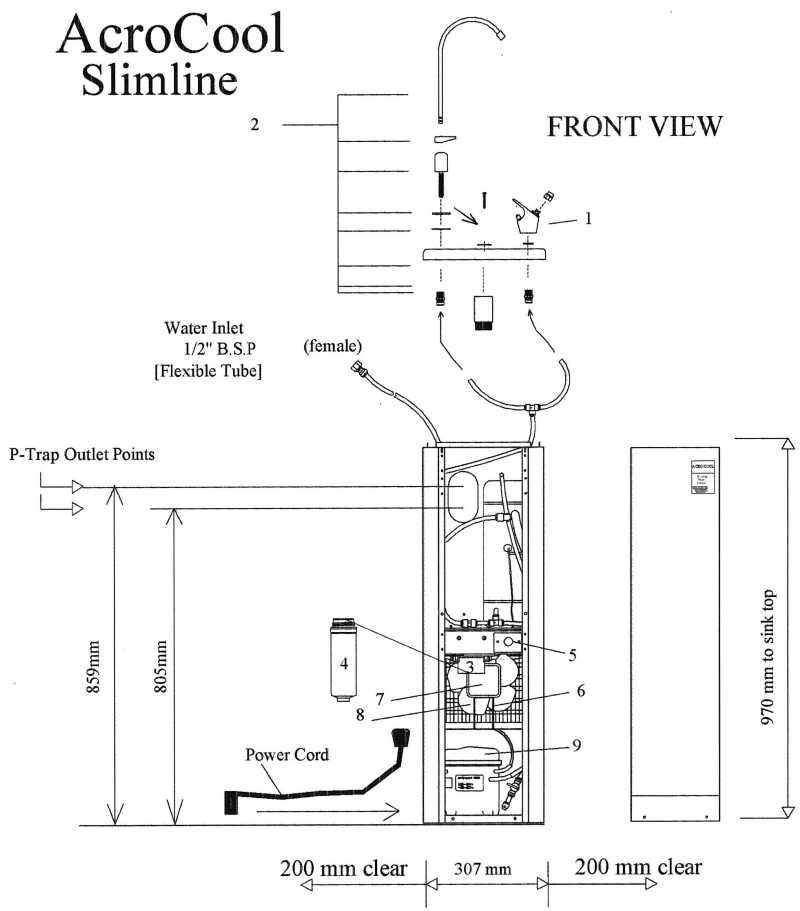
Over time the UV lamp will deteriorate. To ensure the UV filter is functioning effectively, the lamp should be replaced every six months or as soon as it fails.

1. Isolate the electrical supply to the watercooler.
2. Disconnect the lamp electrical cable from the transformer.
3. Gripping the lamp cable, gently pull the lamp from the cartridge
   Note: There is no need to isolate the water supply as the lamp is fitted in a watertight quartz chamber.
4. Gently slide the replacement lamp into the cartridge.
5. Re-connect the lamp electrical cable to the transformer.
6. Reconnect the electrical supply to the watercooler.
   Note: A purple glow should be noticeable from the base of the lamp.
7. Dispose of the old UV lamp with consideration for the environment.



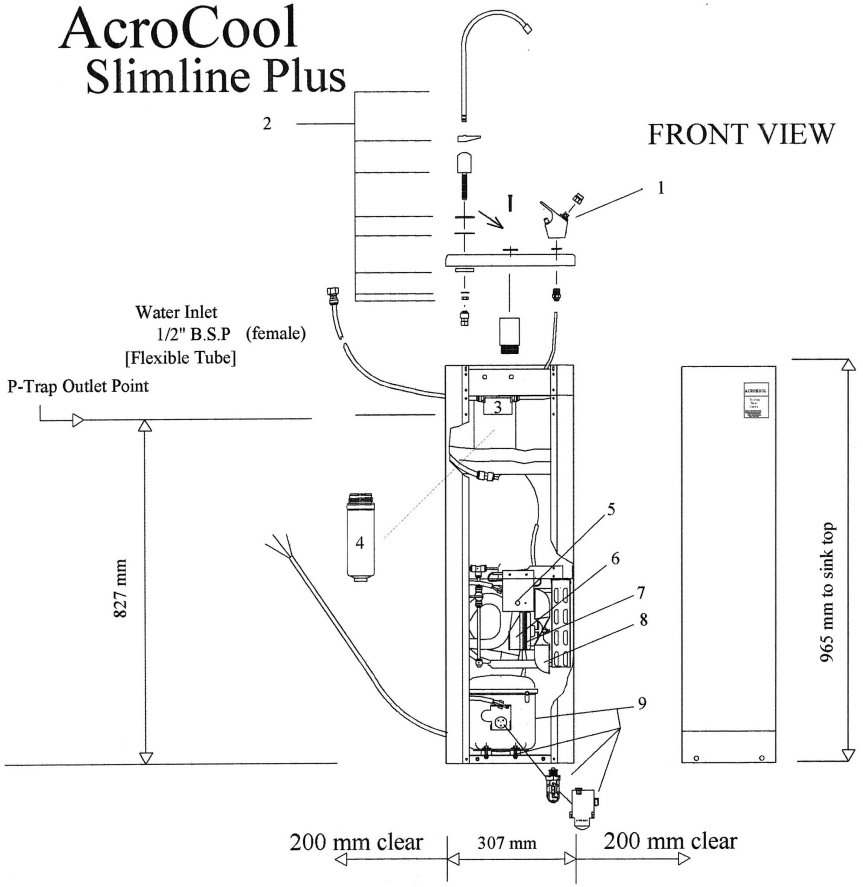
UV Water Filter showing Replaceable Lamp.

Exploded Illustration of Components



To the installer:~ For basin waste, use 1,1/4"B.S.P P-Trap with 3" seal

Exploded Illustration of Components



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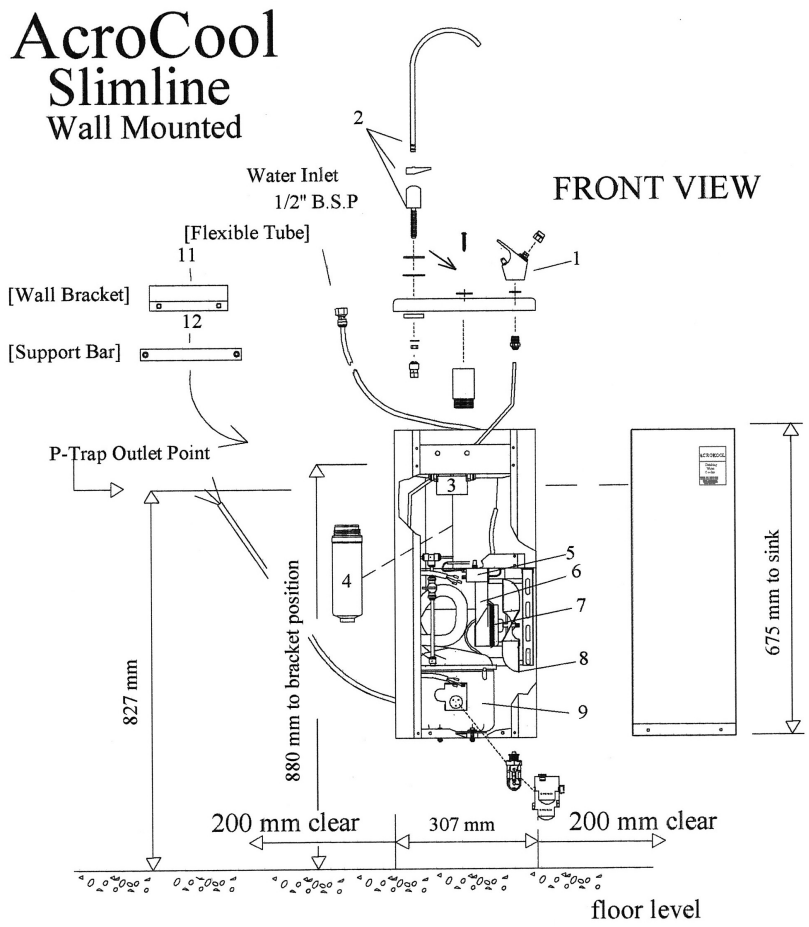

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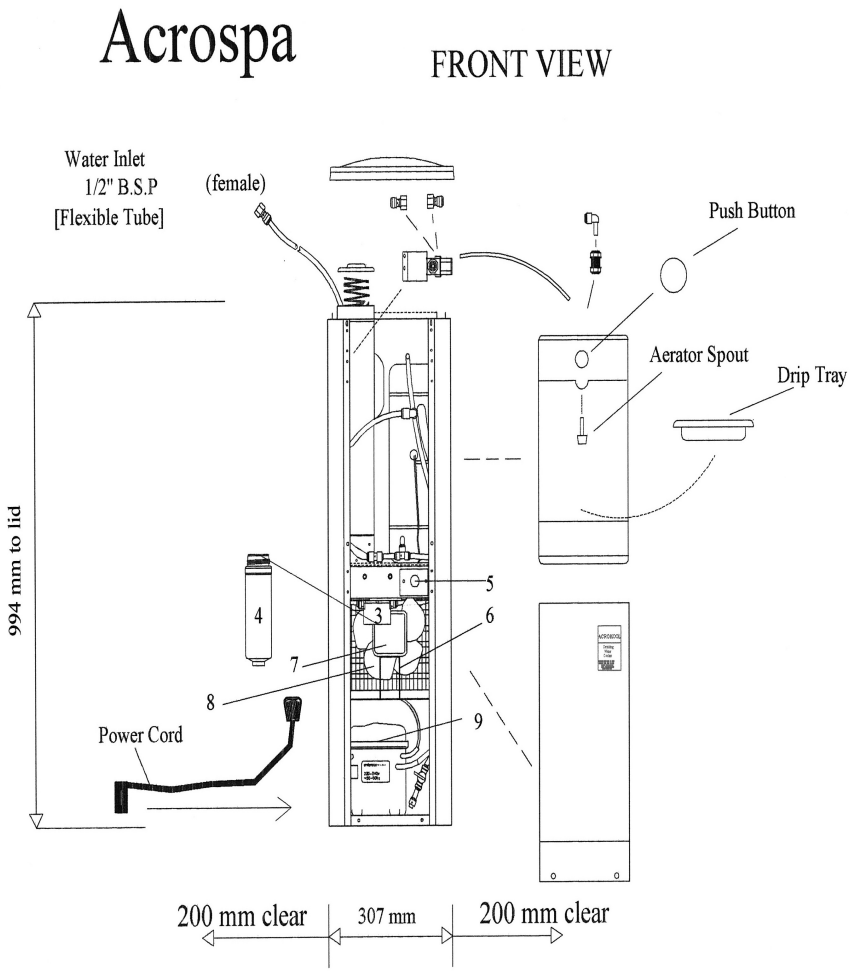


Exploded Illustration of Components

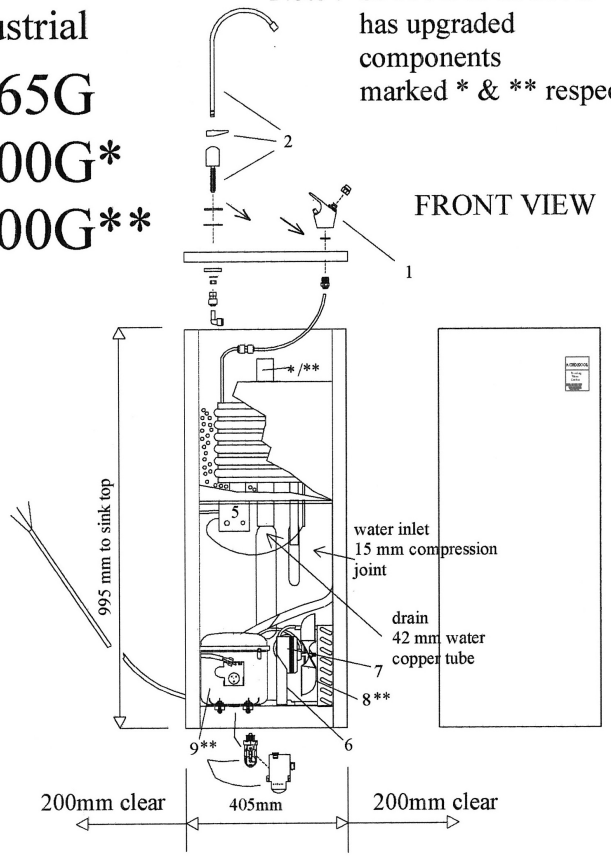
Industrial

SF 65G

SF 100G*

SF 200G**

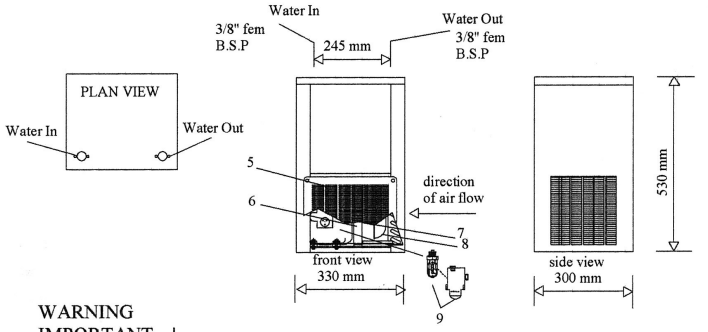
Note :~SF100G & SF200G has upgraded components marked * & ** respectively



To the installer:~ For basin waste, use 1,1/4" B.S.P P-Trap with 3" seal .
Make on to 42 mm copper tube via Multifit fittings.

Exploded Illustration of Components

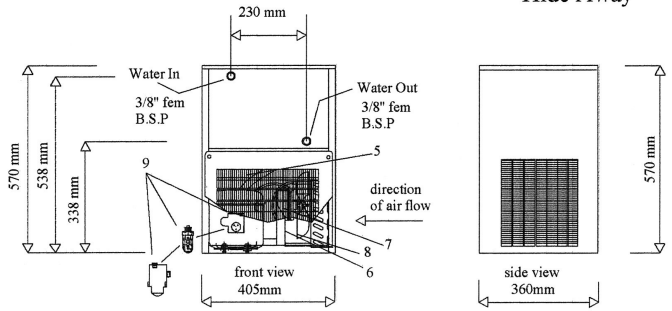
SR 65G Under Counter Hide Away



WARNING
IMPORTANT !
If the water cooler is situated within an enclosed counter/cupboard VENTILATION GRILLS must be provided to provent over heating of unit!

no obstruction to be within 200mm of side grilles.

SR 140G Under Counter Hide Away



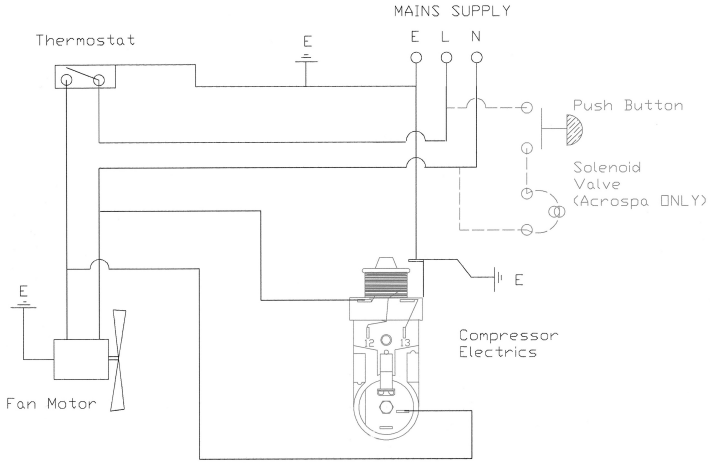
NOTE:~ If filter is required
This will go in line prior to cooler

no obstruction to be within 250mm of side grilles.

Components/Parts Listing

No.	Description	Acrokool Part No.
1	Bubbler Complete	CA010-B-SP
2	Carafe/Cup Filler - Lever Operated	CE001A
2a	Cup filler Repair Kit	
	Carafe/Cup Filler – Push Button	CE001A-PB
3	Water Filter Head – OMN 3/8"NPTF	CC006-SP
4	Water Filter Cartridge – Carbon Block 8"	CC010
5	Water Temperature Thermostat	CA026
6	Condenser Fan Motor Bracket	---
7	Condenser Fan Motor 230V	CA035
8	Condenser Fan Blade	---
9	Refrigeration Compressor	---
10	Solenoid Valve (½" NC 230V)	CA069
11	Wall-Mounting Support Bracket	DA018
12	Wall-Mounting Support Bar	DA017

Electrical Wiring Diagrams



Care For Your Cooler

The sink top and cabinet of the cooler should be cleaned regularly. Abrasive agents should not be used as this could scratch the material. Gentle soap and water is recommended.

Troubleshooting

The unit is designed to give years of trouble free service. Should you experience problems, before calling for assistance, check for electrical and water supply failure. Also check to ensure that:-

- the cooler is sufficiently ventilated;
- the condenser has not become blocked with lint etc.;
- the condenser fan is rotating freely; &
- the water filter has been replaced within the last 6 months (where applicable).

Warranty Statement.

STANDARD WARRANTY.

Acrokool Limited (The Company) guarantees to the original purchaser of the ACROKOOL WATERCOOLER and all parts thereof, to be free of defects in materials or workmanship in normal use in service for a period of 12 Months for Spa and Slimline Range - 24 Months for Industrial & Under Counter Units from the date purchased, provided that:-

1) The equipment has been used for the purpose for which it was sold.

2) Should the equipment be found to be faulty during the period of the guarantee, only the Company or its appointed distributors shall carry out the required repair or adjustment. If at any time during the guarantee period, any part or parts of the appliance are replaced with any part or parts not supplied or approved by The Company, or the appliance has been dismantled or repaired by any person not authorised by The Company, then this warranty shall immediately become void.

3) The Company shall not be liable for any consequential loss or damage suffered by the purchaser.

4) The Company's decision in all questions relating to alleged defects shall be final and any part which has been replaced shall become the property of The Company.

5) This warranty shall not include labour, expenses or material necessary to repair damage to the equipment caused by accidents, abuses, acts of third persons, acts of God, major repairs, reconditioning or alteration of equipment, replacement of motors burnt out by electric current fluctuations or damage caused to the equipment by unusual circumstances or occurrences beyond the Company's control.

6) This warranty is given in lieu of all other warranties or conditions expressed or implied, statutory or otherwise, which are hereby expressly excluded.